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PROPOSED AMENDMENTS TO THE CLAIMS:**1. (proposed amendment) A communication system comprising:**

a network unit; and

a plurality of subscriber units connected to the network unit;

the network unit having means for generating a message in which validity of transmission grant information is set for the subscriber units, means for generating polling information to allocate a transmission grant to the subscriber units by using the transmission grant information, and means for suspending a transmission of the polling information for a fixed time in consideration of a processing time of the subscriber units from a time when the message has been completely transmitted.

2. (proposed amendment) A communication system comprising:

a network unit; and

a plurality of subscriber units connected to the network unit;

the network unit having means for generating a message in which validity of transmission grant information is set for the subscriber units, means for generating polling information to allocate a transmission grant to the subscriber units by using the transmission grant information, a detecting means for detecting a disconnection state of an inputted cell from the subscriber units, and a controlling means for suspending an operation of the detecting means for detecting the transmission grant information for a fixed time in consideration of a processing time of the subscriber units from a time when the message and the polling information have been completely transmitted.

3. (proposed amendment) A communication system comprising:

a network unit; and

a plurality of subscriber units connected to the network unit;

the network unit having means for generating a message in which validity of transmission grant information is set for the subscriber units, means for generating polling information to allocate a transmission grant to the subscriber units by using the transmission grant information, a detecting means for detecting a disconnection state of an inputted cell from the subscriber units, and a controlling means for monitoring a detection result of the detecting means from a time when the message and the polling information have been completely transmitted and for validating/invalidating ~~validating and invalidating~~ a function for the transmission grant information of the detecting means after respectively detecting/not detecting ~~and not detecting~~ an inputted cell of validity/invalidity ~~validity and invalidity~~ for the transmission grant information.

4. (proposed amendment) The communication system as claimed in claim 3 wherein the network unit is further provided with a timer for respectively validating/invalidating ~~validating and invalidating~~ a function of the controlling means according to validity/invalidity ~~validity and invalidity~~ of the transmission grant information only after a lapse of a fixed time from a time when the message and the polling information have been completely transmitted.

5. (proposed amendment) A communication system comprising:

a network unit; and

a plurality of subscriber units connected to the network unit;

the subscriber units having means for recognizing a setting of validity/invalidity ~~validity and invalidity~~ of transmission grant information in a message from the network unit, and means for transmitting a message to the network unit when recognizing the setting of the validity/invalidity ~~validity and invalidity~~ from the message, and

the network unit having means for generating the message, ~~a~~ detecting means for detecting a disconnection state of an inputted cell, and means for validating/invalidating ~~validating and invalidating~~ the detecting means when receiving a message from the subscriber units.

6. (proposed amendment) A communication system comprising:

a network unit; and

a plurality of subscriber units connected to the network unit;

the network unit having means for managing plural kinds of transmission grant information, means for performing a polling by the transmission grant information, means for detecting transmission grant information coincident with the transmission grant information set from polling information of a same subscriber unit received by the polling, and means for identifying a kind of transmission grant information based on the detected transmission grant information and for distributing an inputted cell.

7. (proposed amendment) A communication system comprising:

a network unit; and

a plurality of subscriber units connected to the network unit;

the network unit having means for managing plural kinds of transmission grant information set in a message, means for notifying a switchover of validity/invalidity ~~validity and invalidity~~ of the transmission grant information to the subscriber units by a message, and means for executing the switchover of the transmission grant information within the network unit itself after a fixed time in consideration of a processing time of the subscriber units from a time of the notification, and

the subscriber units having means for executing the switchover of the transmission grant information within the subscriber units themselves after the fixed time from a reception of the message.

8. (proposed amendment) A communication system comprising:

a network unit; and

a plurality of subscriber units connected to the network unit;

the subscriber units having means for recognizing a switchover of validity/invalidity ~~validity and invalidity~~ of plural kinds of transmission grant information set in a message, and means for transmitting a message to the network unit when recognizing the switchover by a message from the network unit, and

the network unit having a detecting means for detecting a disconnection state of an inputted cell, and means for executing the switchover of the transmission grant information within the network unit itself when receiving a message from the subscriber units and for validating/invalidating ~~validating and invalidating~~ the detecting means.

9. (proposed amendment) A communication system comprising:

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a network unit, and

a plurality of subscriber units connected to the network unit;

the network unit having means for managing plural kinds of mini cell transmission grant information set in a message, means for notifying a switchover of ~~validity/invalidity~~ ~~validity and invalidity~~ of the mini cell transmission grant information to the subscriber units by the message, and means for executing the switchover of the ~~validity/invalidity~~ ~~validity and invalidity~~ of the mini cell transmission grant information within the network unit itself after a fixed time in consideration of a processing time of the subscriber units from a time of the notification, and

the subscriber units having means for executing the switchover of the mini cell transmission grant information within the subscriber units themselves after the fixed time from a reception of the message.

10. (proposed amendment) A communication system comprising:

a network unit; and

a plurality of subscriber units connected to the network unit;

the subscriber units having means for recognizing plural settings of mini cell transmission grant information set in a message, and means for transmitting a message to the network unit when recognizing a switchover of the setting by a message from the network unit, and

the network unit having a detecting means for detecting a disconnection state of an inputted cell, and means for executing the switchover of the setting of the mini cell

transmission grant information within the network unit itself when receiving a message from the subscriber units and for validating/invalidating ~~validating and invalidating~~ the detecting means.

11. (previously presented) The communication system as claimed in claim 1 wherein the transmission grant information includes physical layer OAM cell transmission grant information and data cell transmission grant information.

12. (previously presented) The communication system as claimed in claim 2 wherein the transmission grant information includes physical layer OAM cell transmission grant information and data cell transmission grant information.

13. (previously presented) The communication system as claimed in claim 3 wherein the transmission grant information includes physical layer OAM cell transmission grant information and data cell transmission grant information.

14. (previously presented) The communication system as claimed in claim 4 wherein the transmission grant information includes physical layer OAM cell transmission grant information and data cell transmission grant information.

15. (previously presented) The communication system as claimed in claim 5 wherein the transmission grant information includes physical layer OAM cell transmission grant information and data cell transmission grant information.

16. (previously presented) The communication system as claimed in claim 6 wherein the transmission grant information includes physical layer OAM cell transmission grant information and data cell transmission grant information.

17. (previously presented) The communication system as claimed in claim 7 wherein the transmission grant information includes physical layer OAM cell transmission grant information and data cell transmission grant information.

18. (previously presented) The communication system as claimed in claim 8 wherein the transmission grant information includes physical layer OAM cell transmission grant information and data cell transmission grant information.